

ETi DALI 25/220...240/300 D LT2 L

ICUTRONIC Intelligent – DALI (non-isolated) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- Non-isolated drivers

Product family benefits

- Versatile non-isolated DALI driver up to 75 W due to flexible output characteristic
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at $T_C = 65\text{ °C}$, max. 10 % failure rate)
- High-quality dimming of 10...100 % by amplitude dimming
- No TouchDIM nor Corridor Function
- High quality of light thanks to <4% output ripple current
- High efficiency
- Low standby power consumption: < 0.25 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Product datasheet

Areas of application

- Linear and area lighting
- Industry lighting
- Suitable for luminaires of protection class I

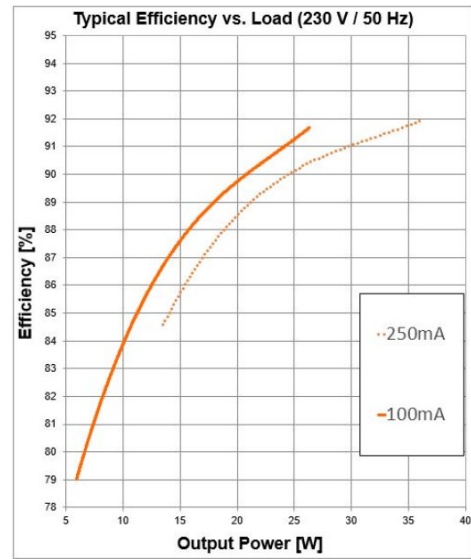
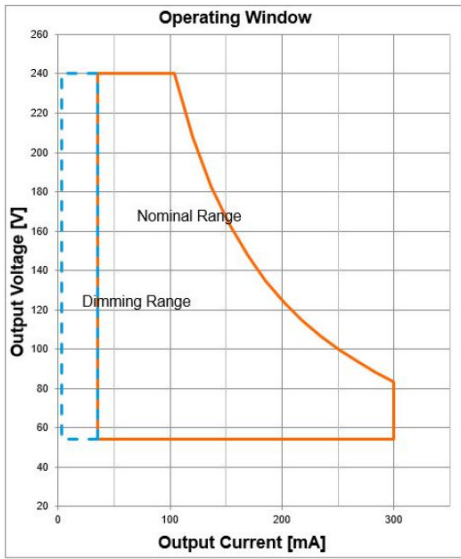
Technical data

Electrical data

| | |
|--|----------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 0/50/60 Hz |
| Input voltage AC | 198...264 V |
| Input voltage DC | 176...276 V |
| Current set | DALI / Rset / Programmable |
| Total harmonic distortion | < 10 % |
| Power factor λ | 0.31C...0.95 |
| Efficiency in full-load | 90 % ¹⁾ |
| Device power loss | 2.0 W |
| Inrush current | ≤ 28 A |
| Max. ECG no. on circuit breaker 10 A (B) | 18 |
| Max. ECG no. on circuit breaker 10 A (C) | - |
| Max. ECG no. on circuit breaker 16 A (B) | 30 |
| Max. ECG no. on circuit breaker 16 A (C) | - |
| Max. ECG no. on circuit breaker 25 A (B) | - |
| Surge capability (L/N-Ground) | 2 kV |
| Surge capability (L-N) | 1 kV |
| Nominal output voltage | 54...240 V |
| U-OUT (working voltage) | < 250 V |
| Nominal output current | 35...300 mA |
| Output current LEDset open | 15 mA |
| Output current LEDset shorted | 35 mA |
| Default output current | 15 mA ²⁾ |
| Output current tolerance | ± 5 % |
| Output ripple current (100 Hz) | < 4 % |
| Output PSTLM | ≤ 1 |
| Output SVM | ≤ 0.4 |
| Nominal output power | 3...25 W |
| Maximum output power | 25 W |
| Galvanic isolation | Non isolated |
| Power loss in stand-by mode | <0.25 W |

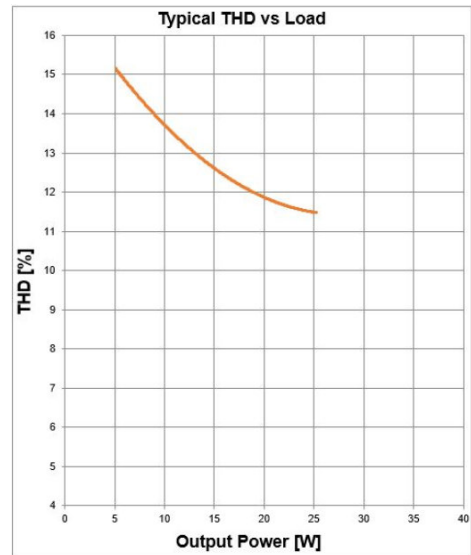
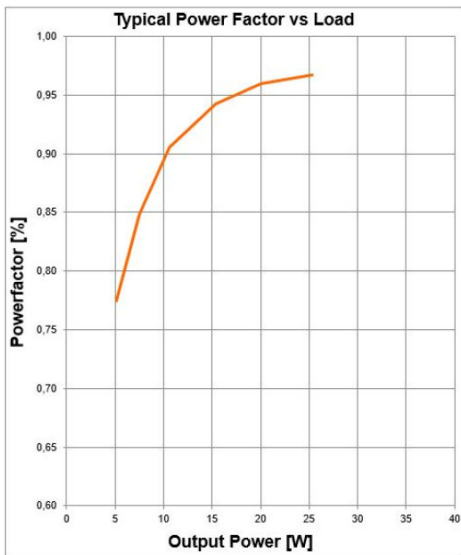
¹⁾ at 230 V, 50 Hz

²⁾ LEDset deactivated



Operating Window ETI DALI 25220-240300 D LT2 L

Typical Efficiency vs. Load (230 V 50 Hz) ETI DALI 25220-240300 D LT2 L



Typical Power Factor vs. Load ETI DALI 25220-240300 D LT2 L

Typical THD Vs Load ETI DALI 25220-240300 D LT2 L

Dimensions & weight



| | |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length | 270.0 mm |
| Product weight | 205.00 g |
| Cable cross-section, input side | 0.5...1.5 mm ² |
| Cable cross-section, output side | 0.5...1.5 mm ² |
| Wire preparation length, input side | 8.0...9.0 mm |
| Wire preparation length, output side | 8.0...9.0 mm |
| Length | 280.0 mm |
| Width | 30.0 mm |
| Height | 21.0 mm |

Colors & materials

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|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

Temperatures & operating conditions

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|--|------------------------|
| Ambient temperature range | -25...+50 °C |
| Maximum temperature at tc test point | 75 °C |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -40...+85 °C |
| Permitted rel. humidity during operation | 5...85 % ¹⁾ |

¹⁾ Maximum 56 days/year at 85 %

Lifespan

| | |
|--------------|------------------|
| ECG lifetime | 50000 / 100000 h |
|--------------|------------------|

Capabilities

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|-----------------------|------|
| Programming interface | Rset |
| Dimmable | Yes |

Product datasheet

| | |
|--|-----------------------|
| Dimming interface | DALI-2 |
| Dimming range | 10...100 % |
| Dimming method | Full analogue dimming |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| No-load proof | Yes |
| Intended for no-load operation | No |
| Max. cable length to lamp/LED module | 2.0 m ¹⁾ |
| Suitable for fixtures with prot. class | I |
| Suitable for emergency lighting | Yes |
| Type of connection, input side | Push terminal |
| Type of connection, output side | Push terminal |
| Constant lumen function | Programmable |
| Number of channels | 1 |
| DALI-2 Energy Data | No |
| DALI-2 Diagnostic Data | No |

¹⁾ Output wires must be routed as close as possible to each other

Programming

| | |
|------------------------|------------|
| Programming device | DALI magic |
| Tuner4TRONIC Field App | Yes |

Programmable features

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|-----------------------|----|
| DALI-2 Luminaire Data | No |
|-----------------------|----|

Certificates & standards

| | |
|---------------------------|--|
| Approval marks – approval | CE / EL / ENEC 05 / EAC / CCC / BIS / RCM |
| Standards | Acc. to IEC 61347/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547 |
| Type of protection | IP20 |

Logistical data

| | |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|











Environmental information

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| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
| Date of Declaration | 20-11-2023 |

Product datasheet

| | |
|---|--|
| Primary Article Identifier | 4062172053280 |
| Candidate List Substance 1 | Lead |
| CAS No. of substance 1 | 7439-92-1 |
| Safe Use Instruction | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database | 82a4603a-3d58-43dd-bdda-df733f04bb97 |

Download Data

| File | |
|---|--|
|  | User instruction ICUTRONIC INTELLIGENT LED Power Supply |
|  | Certificates EATON(CEAG)-Conformity declaration AM28129 ETI DALI 25220-240300 D LT2 L |
|  | Certificates INOTEC-Conformity declaration AM28129 ETI DALI 25220-240300 D LT2 L |
|  | Certificates OT ENEC 40038085 010322 |
|  | Declarations of conformity ETI DALI D LT2 L CE 3971160 190821 |
|  | Declarations of conformity ETi DALI D LT2 L UK DoC 4281296 180221 |
|  | CAD data ETI DALI D LT2 L IGS 270220 |
|  | CAD data ETI DALI D LT2 L STEP 270220 |
|  | CAD Data 2-dim ETI DALI D LT2 L CAD2PDF 270220 |
|  | CAD data 3-dim ETI DALI D LT2 L CAD3PDF 270220 |

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Product datasheet

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|--------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4062172053280 | ETi DALI 25/220...240/300 D LT2 L | Shipping carton box 20 | 303 mm x 159 mm x 105 mm | 5.06 dm ³ | 4227.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.